

Abstract

A non-lethal nose cone adapted for the delivery of non-lethal munitions with a projectile weapon. The non-lethal nose cone is manufactured of materials, such as polymers and ceramics, selected for traits including high strength and uniformity when exposed to typical projectile firing conditions as well as an ability to avoid becoming lethal shrapnel upon detonation of an internal charge for disbursing the non-lethal submunitions through pre-scored grooves on the nose cone. Generally, the non-lethal nose cone is intended for use with a projectile having an integral kinetic energy reduction system that may serve the dual role of assisting with submunition ejection through the pre-scored grooves as well as reducing the fall rate of the projectile to non-lethal velocities. Generally, the non-lethal nose cone is adapted for use with standoff delivery systems such as mortar rounds, air delivery systems and artillery.